

# ELECTRON EMITTER ASSEMBLY AND METHOD FOR GENERATING ELECTRON BEAMS

## Abstract

An electron emitter assembly and a method for generating electron beams are provided. The electron emitter assembly includes a light source configured to emit light. The electron emitter assembly further includes a photo-responsive device operably coupled to an electron emitter device. The photo-responsive device induces the electron emitter device to emit electrons in response to receiving the light. Finally, the electron emitter assembly includes an anode receiving the emitted electrons from the electron emitter device.